# SIZE "21.21" ENCLOSURES

# **HNM** VERSION



Size "21.21" metallic housings (bulkhead and surface mounting) and hoods with CLASS lever, suitable for up to 5 000 mating cycles



# **TECHNICAL FEATURES**

Housings (bulkhead-mounting or surface mounting) size "21.21" equipped with CLASS single locking lever, made by stainless-steel with sintered stainless-steel rolls with special anti-friction treatment

Q to be mated to standard hoods "size 21.21".

This **HNM** series of connector housings has been developed to be used in combination with the **HNM** series of size "21.21" multipole connector inserts, equipped with the relevant **HNM** series of removable crimp contacts, to provide the same reliable protection of the standard series but for a consistently extended, **high number of matings.** 

The CLASS locking lever has been chosen and treated so as to reduce wear due to friction at minimum.

Even mated on standard hoods, it is able to provide extremely reduced wear on the corresponding locking pegs, producing virtually no friction by the application of special lubrication on the hinged rolls.

The counterpart hoods are therefore standard metallic types, with fused pegs.

Currently (see next pages) the **suitable HNM inserts size** "21.21" for these new HNM housings are: 

- Q CQF /M 21 inserts with 5 A HNM crimp contacts series RI
- Q CDF /M 08 inserts with 10 A HNM crimp contacts series RD
- Q New RQF /M 05 inserts, special HNM screw-type PE terminal, with 16 A HNM crimp contacts series RC
- Q CQ4F /M 03 with 40 A HNM crimp contacts series RX
- NOTE Series CKSH (SQUICH<sup>®</sup>), as well as all MIXO BUS multi-axial and coaxial inserts for use within the size "21.21" CX 1/2 BDF /BDM adapter are not foreseen in HNM version. For requests of other size "21.21" connector inserts in HNM version (e.g.: RK, RQ 12, RQ 07), please contact ILME Commercial Offices.

When the number of 500 mating cycles guaranteed life of standard connector hoods and housings is insufficient to provide a reasonably long lifespan in those connector applications that by inherent function are foreseen to be subject to very frequent connections and disconnections, it is necessary to opt for a solution able to increase that guaranteed lifetime.

Q The HNM size "21.21" series of connector enclosures achieves this goal, extending the guaranteed number of matings up to 5 000.

 Original design, ILME exclusive in the market for rectangular connectors



 Special gold plating and lubrication to reduce the wear of the contacts during frequently repeated mating/unmating operations Enclosures size "21.21"

#### HNM (High Number of Matings) **RKAX 03**

page:

inserts		
CQ CD RQ CQ4 03	21 poles 8 poles 5 poles + ⊕ 3 poles + ⊕	

bulkhead mounting housings straigh, stainless steel lever



#### FROM UNIC 2022 -0

bulkhead mounting housings angled, stainless steel lever

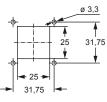


## DOM JUNE 2022

	H FROM JUNE 2022	🛗 FROM JUNE 2022
description	part No.	part No.
with stainless steel lever without cable entry <sup>1)</sup>	RKAX 03 I	RKAX 03 IA
without cable entry, fixing by 4 screws		RKAX 03 IA4
gasket and screw kit for IP66 <sup>2)</sup>	CKR 65	CKR 65
gasket and screw kit for IP66 <sup>a</sup> specific for CD 07/08 inserts	CKR 65 D	CKR 65 D
<sup>1)</sup> Not suitable for CQ4 series inserts	RKAX 03 I	RKAX 03 IA
<ul> <li><sup>21</sup> To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).</li> <li><b>© NOTE:</b> The enclosure shown here is an example. The acrow and coeling.</li> </ul>	50 + 33 +	45 45 41,5 41,5 45 40 3,3
The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.	panel cut-out for enclosures	panel cut-out for enclosures
		RKAX 03 IA4
		panel cut-out for enclosures $\phi 3.3$



IP66 with CKR 65 (D) 2)



# RKAX VG HNM (High Number of Matings)



	-		
Inserts         CQ         21 poles           CD         8 poles           RQ         5 poles + ⊕           CQ4 03         3 poles + ⊕	page: 82 83 84 85	hoods stainless steel lever	hoods stainless steel lever
		G	
		∰ FROM JUNE 2022	<b># FROM JUNE 2022</b>
description		part No. (entry M20)	part No. (entry M25)

top entry 1)	RKAX VG20	
top entry		RKAX VG25
gasket and screw kit for IP66 <sup>a)</sup>	CKR 65	CKR 65
gasket and screw kit for IP66 <sup>2)</sup> specific for CD 08 inserts	CKR 65 D	CKR 65 D

40,5

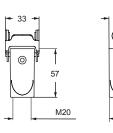
<sup>1)</sup> Not suitable for CQ4 series inserts

<sup>2)</sup> To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

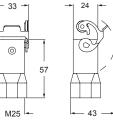
➢ NOTE: The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.



#### RKAX VG20











) | IP66 with CKR 65 (D)  $^{2)}$ 

#### dimensions shown in mm are not binding and may be changed without notice

Enclosures size "21.21"

**RKAX AP – IAP** 

## HNM (High Number of Matings)

inserts		page:
CQ	21 poles	82
CD	8 poles	83
RQ	5 poles + ⊕	84
CQ4 03	3 poles + ⊕	85

bulkhead mounting housings straight and angled, stainless steel lever



**FROM JUNE 2022** 

angled surface mounting housings stainless steel lever



## **FROM JUNE 2022**

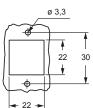
		•
description	part No. (entry M20)	part No. (entry M25)
with cable entry $^{\mbox{\tiny 1}}$ with cable entry, bulkhead hole closed, without gasket $^{\mbox{\tiny 1}}$	RKAX IAP20 RKAX AP20	
with cable entry, fixing by 4 screws with cable entry, fixing by 4 screws, bulkhead hole closed, without gasket		RKAX IAP25 RKAX AP25
gasket and screw kit for IP66 <sup>a)</sup>	CKR 65	CKR 65
gasket and screw kit for IP66 <sup>2)</sup> specific for CD 07/08 inserts	CKR 65 D	CKR 65 D
<sup>1)</sup> Not suitable for CQ4 series inserts	RKAX IAP20 (RKAX AP20*)	RKAX IAP25
<ul> <li><sup>2</sup> To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).</li> <li><b>© NOTE:</b> The enclosure shown here is an example. The screw and sealing</li> </ul>	+ 42,5 + M20 + 45 (43,5) + 10 + 47 + 30 + 30 + Ø 3,3	46 31,75 - 70,5 - 7

The screw and sealing gasket kit can be used with all enclosures' part nos. in this page.

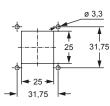


\*AP... without gasket

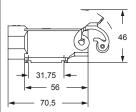
panel cut-out for enclosures

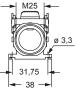


panel cut-out for enclosures

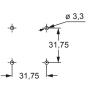


#### **RKAX AP25**





panel cut-out for enclosures



cURus Type 12 pending Type 4/4X only with CKR 65 (D) pending



IP66 with CKR 65 (D) 2)



Enclosures size "21.21"

**RKAX IF - IAF** 

## **HNM (High Number of Matings)**

page:

inserts		
CQ CD RQ CQ4 03	21 poles 8 poles 5 poles + ⊕ 3 poles + ⊕	

bulkhead mounting housings stainless steel lever

**H** FROM JUNE 2022

angled bulkhead mounting housings stainless steel lever



M

## **FROM JUNE 2022**

	1		1	
description	part No.	entry M	part No.	entry M
with O-ring gasket <sup>1) (·)</sup> with flange gasket <sup>1)</sup>	RKAX IF RKAX IFC	32 32		
with O-ring gasket າາສາດ with O-ring gasket າາສາດ			RKAX IAF20 RKAX IAF25	20 25
gasket and screw kit for IP66 <sup>2)</sup>	CKR 65		CKR 65	
gasket and screw kit for IP66 <sup>2)</sup> specific for CD 07/08 inserts	CKR 65 D		CKR 65 D	

<sup>1)</sup> To obtain the IP66 degree of protection it is necessary to replace the fixing screw supplied with the above listed inserts, with the one with gasket included in the kit (to be purchased separately).

**NOTE:** The enclosure shown here is an example. The screw and sealing gasket kit can be used with all enclosures' part nos. in this page

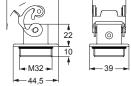


<sup>2)</sup> Not suitable for CQ4 series inserts

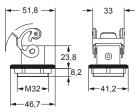
<sup>()</sup> Locknut supplied on request, see Cable glands catalogue (article AS M32N metallic).

50.7

**RKAX IF** 



#### RKAX IFC



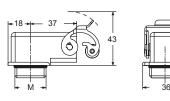
panel cut-out for enclosures



#### USE OF THE LOCKNUT

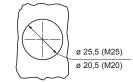


MKAX IAF

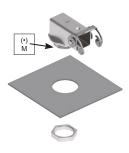




panel cut-out



USE OF THE LOCKNUT



cURus Type 12 pending Type 4/4X only with CKR 65 (D) pending



IP66 with CKR 65 (D) 2)

# HNM series In and out

Housings (bulkhead-mount or surface mount) equipped with V-TYPE single locking lever with special anti-friction treatment

to be mated to

**Hoods** with **riveted anti-friction pegs**, that facilitate the frequent opening and closing.

This **HNM** series of connector enclosures has been developed to be used in combination with the **HNM** series of multipole connector inserts equipped with relevant **HNM** series of removable crimp contacts, to provide the same reliable protection of the standard series but for a consistently extended, **high number of matings.** 

When the number of 500 mating cycles guaranteed life of standard connector hoods and housings is insufficient to provide a reasonably long life span in those connector applications that by function are foreseen to be subject to very frequent connections and disconnections, it is necessary to opt for a solution able to increase that guaranteed lifetime.

The  ${\rm HNM}$  series of connector enclosures achieves this goal, extending the guaranteed number of matings up to 10.000.

The locking means, comprising both the locking lever and locking pegs are chosen and treated so as to reduce wear due to friction at minimum, thanks to the use of the clever proprietary design of the **V-TYPE locking lever**, that already in standard enclosures is able to provide extremely reduced wear on the corresponding locking pegs, producing a very limited friction, furtherly reduced by the application of a special anti-friction lubrication treatment.

The counterpart hoods for locking on the long side are already provided by riveted anti-friction rolling pegs, as well furtherly improved by the special anti-friction lubrication treatment.



#### Enclosures size "44.27"

# **RV - RVA HNM (High Number of Matings)**

inserts		page:
RDD	24 poles + ⊕	210
RCE	6 poles + ⊕	214
MIXO HNM	2 modules	321 - 333

bulkhead mounting housings with single lever in stainless steel



# with single lever in stainless steel

surface mounting housings

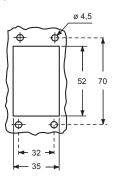


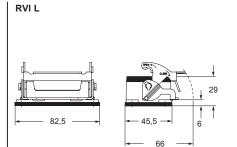
#### Q 10.000 MATINGS WITH HNM INSERTS

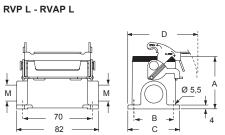
#### Q 10.000 MATINGS WITH HNM INSERTS

description	part No.	part No.	entry M
with lever and gasket, size "44.27"	RVI 06 L		
with lever, size "44.27" with lever, size "44.27" with lever, high construction, size "44.27" with lever, high construction, size "44.27"		RVP 06 L20 RVP 06 L220 RVAP 06 L32 RVAP 06 L32	20 20 x 2 32 32 x 2

panel cut-out for bulkhead mounting housings







type	Α	в	С	D
RVP 06 L	53	40	52	70
RVAP 06 L	74	45	57	72,5





insulating cable gland or fittings without gasket



cable gland with O-Ring gasket

<u>ith</u> O-Ring gaske

#### Enclosures size "44.27"

#### HNM (High Number of Matings) RH - RF



description part No. part No. entry entry Μ Μ with pegs, side entry RHO 06 L25 25 with pegs, top entry 1) RHV 06 L25 25 with pegs, side entry, high construction, without adapter <sup>2</sup>) with pegs, top entry, high construction, without adapter <sup>2</sup>) RFO 06 L32 32 RFV 06 L32 32 RHO L RFO L 1) cannot be used with MIXO series. 2) enclosure without adapter, threaded on the body, to be used only with a complete cable gland. 45 M 72 0 6 60 43 60 43 RHV L RFV L 45 Μ М

53

0

43

60



4/4X/12



insulating cable gland or fittings without gasket



cable gland with O-Ring gasket





HNM

#### Enclosures size "57.27"

# RV - RVA HNM (High Number of Matings)

inserts		page:
RDD	42 poles + ⊕	211
RCE	10 poles + ⊕	215
MIXO HNM	3 modules	321 - 333

bulkhead mounting housings with single lever in stainless steel



## surface mounting housings with single lever in stainless steel



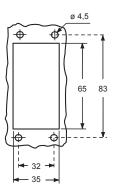
#### Q 10.000 MATINGS WITH HNM INSERTS

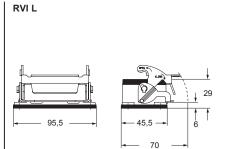
#### Q 10.000 MATINGS WITH HNM INSERTS

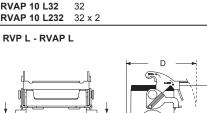
description	part No.	part No. entry M
with lever, size "57.27"	RVI 10 L	
with lever, size "57.27"		RVP 10 L20 20

with lever, size "57.27"	RVP 10 L20
with lever, size "57.27"	RVP 10 L220
with lever, high construction, size "57.27"	RVAP 10 L32
with lever, high construction, size "57.27"	RVAP 10 L232

panel cut-out for bulkhead mounting housings







М

1

B C D

57

A

57 40 52 73 93,5

74 45

82

Е

Ø 5,5

E

75,5 94

B

20 x 2

М

Ŧ

type

RVP 10 L

RVAP 10 L





insulating cable gland or fittings <u>without</u> gasket



#### Enclosures size "57.27"

## RH - RF HNM (High Number of Matings)



description	part No.	entry M	part No.	entry M
with pegs, side entry with pegs, top entry	RHO 10 L25 RHV 10 L25	25 25		
with pegs, side entry, high construction, without adapter <sup>1</sup> ) with pegs, top entry, high construction, without adapter <sup>1</sup> )		25	RFO 10 L32 RFV 10 L32	32 32
<ol> <li>enclosure without adapter, threaded on the body, to be used only with a complete cable gland.</li> </ol>	RHO L		RFO L	
			73	
	RHV L		RFV L	
	- 73 -		-+ M	





insulating cable gland or fittings without gasket



cable gland <u>with</u> O-Ring gasket HNM

#### RV - RVA HNM (High Number of Matings) inserts page:

		1 0
RD	40 poles + 🕀	208
RDD	72 poles + 🕀	212
RCE	16 poles + 🕀	216
RQEE	40 poles + 🕀	218
RX	12 poles + 2 poles + 🕀	221
MIXO HNM	4 modules	321 - 333

Enclosures size "77.27"

bulkhead mounting housings with single lever in stainless steel



## surface mounting housings with single lever in stainless steel



#### Q 10.000 MATINGS WITH HNM **INSERTS**

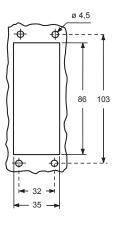
# Q 10.000 MATINGS WITH HNM

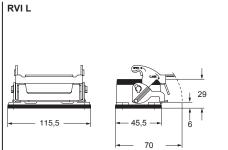
description	part No.	part No. entry M
with lever, size "77.27"	RVI 16 L	
with lover eize "77.27"		DVD 46   25 95

**INSERTS** 

with lever, size "77.27" with lever, size "77.27" with lever, high construction, size "77.27" with lever, high construction, size "77.27"

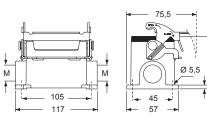
panel cut-out for bulkhead mounting housings





RVP 16 L25	25
RVP 16 L225	25 x 2
RVAP 16 L32	32
RVAP 16 L232	32 x 2

#### RVP L - RVAP L



type	Α	
RVP 16 L	63	
RVAP 16 L	81	





insulating cable gland or fittings without gasket



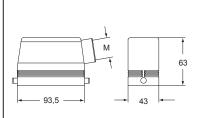
cable gland with O-Ring gasket

596

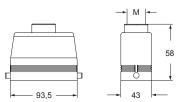
## RH - RF HNM (High Number of Matings)

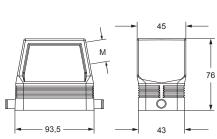


description	part No.	entry M	part No.	entry M
with pegs, side entry with pegs, top entry	RHO 16 L32 RHV 16 L32	32 32		
with pegs, side entry, high construction, without adapter $^{1)}$ with pegs, top entry, high construction, without adapter $^{1)}$			RFO 16 L32 RFV 16 L32	32 32
<ol> <li>enclosure without adapter, threaded on the body, to be used only with a complete cable gland.</li> </ol>	RHO L		RFO L	

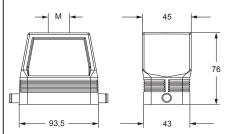


RHV L















insulating cable gland or fittings without gasket



cable gland <u>with</u> O-Ring gasket



#### HNM (High Number of Matings) **RV - RVA**

inserts		page:
RD	64 poles + ⊕	209
RDD	108 poles + ⊕	213
RCE	24 poles + ⊕	217
RQEE	64 poles + ⊕	219
MIXO HNM	6 modules	321 - 333

bulkhead mounting housings with single lever in stainless steel



# with single lever in stainless steel

surface mounting housings



#### Q 10.000 MATINGS WITH HNM **INSERTS**

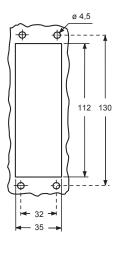
#### Q 10.000 MATINGS WITH HNM **INSERTS**

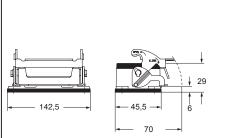
description	part No.	part No. entry M
with lever, size "104.27"	RVI 24 L	
with lever, size "104.27"		<b>RVP 24 L25</b> 25

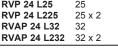
RVI L

with lever, size "104.27" with lever, high construction, size "104.27" with lever, high construction, size "104.27"

panel cut-out for bulkhead mounting housings

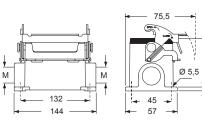






RVP L - RVAP L

Ŧ



type	A	
RVP 24 L	63	
RVAP 24 L	81	

MNH





without gasket

insulating cable gland or fittings



#### HNM (High Number of Matings) RH - RF



#### Q 10.000 MATINGS WITH HNM **INSERTS**

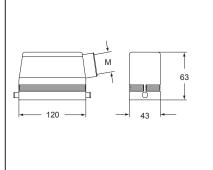


M

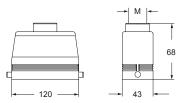
#### Q 10.000 MATINGS WITH HNM **INSERTS**

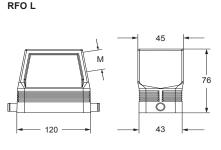
description	part No.	entry M	part No.	entry M
with pegs, side entry with pegs, top entry	RHO 24 L32 RHV 24 L32	32 32		
with pegs, side entry, high construction, without adapter $^{1)}$ with pegs, top entry, high construction, without adapter $^{1)}$			RFO 24 L40 RFV 24 L40	40 40
<sup>1)</sup> enclosure without adapter, threaded on the body,	RHO L		RFO L	

enclosure without adapter, threaded on the body, to be used only with a complete cable gland.

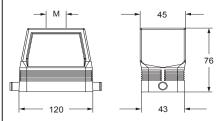


RHV L





RFV L





Туре 4/4X/12



insulating cable gland or fittings <u>without</u> gasket



#### Enclosures

#### dummy hoods HNM (High Number of Matings) RAC

enclosures	page:
size "44.27"	592 - 593
size "57.27"	594 - 595
size "77.27"	596 - 597
size "104.27"	598 - 599

hoods without entry, to be pierced

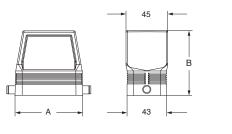


# **INSERTS**

description	part No. with 2 pegs
with pegs for levers used with enclosures size "44.27"	RAC 06 L
used with enclosures size "57.27"	<b>BAC 10 L</b>

used with enclosures size "77.27" used with enclosures size "104.27"

RAC	10	L
RAC	16	L
RAC	24	L



part No.	Α	В
RAC 06 L	60	72
RAC 10 L	73	70
RAC 16 L	93,5	76
RAC 24 L	120	76







insulating cable gland or fittings without gasket



## CR...DF self-centring floating frame HNM (High Number of Matings)

- Q CAUTION: As the frames are floating, the PE earthing connection of the metal surfaces on which they are mounted (mounting bases) must be performed separately and cannot be done by connecting the PE earthing contact to the corresponding connector inserts.
- NOTE: The supply includes 1 frame and 4 shoulder screws with cylindrical head and notch to fix the frame in place.

For use with MIXO inserts CX 04 X, please contact ILME S.p.A.

self-centring floating frame



#### Q 10.000 MATINGS WITH HNM INSERTS

#### part No.

CR 06 DF CR 10 DF CR 16 DF CR 24 DF

in stainlass staal to be mounted any	
in stainless steel, to be mounted on:	
inserts size "44.27" 1) and MIXO frames for 2 inserts	
inserts size "57.27" 1) and MIXO frames for 3 inserts	
inserts size "77.27" 1) and MIXO frames for 4 inserts	
inserts size "104.27" 1) and MIXO frames for 6 inserts	

1) Except CT, CTS and CTSE

#### Technical specifications

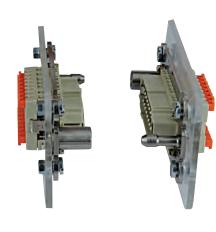
#### - materials:

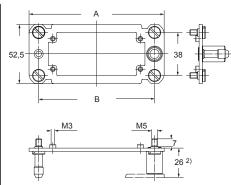
description

- floating frame, inserts: stainless steel
- fixing screws: zinc-plated steel
- mechanical endurance: up to 10.000 cycles with HNM inserts
- with HINIVI Inserts
- compensation range:
- x axis: ± 1,5 mm
- y axis: ± 1,5 mm

#### Characteristics

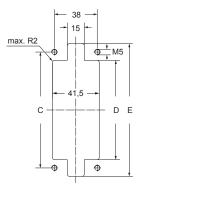
- Suitable, depending on size, for all standard and MIXO connector inserts and frames, except series CT, CTS and CTSE.
- Designed to be used in the transportation, printing and power electronic industries (for example boxes for rack cabinets) and in all industrial applications that require, during assembly or maintenance, the connection of connectors without possibility of controlling the alignment.
- Enables the self-centring coupling of two corresponding connectors without the use of enclosures; they freely move on their base plate (± 1,5 mm on both axes) ensuring the alignment of the coupling.





- <sup>2)</sup> distance for electric and fibre optic contacts: max 27 mm; distance for pneumatic contacts:
  - max 26,5 mm.





part No.	Α	в	С	D	Е
CR 06 DF	86	69	69	54,5	84
CR 10 DF	99	82	82	67,5	97
CR 16 DF	119,5	102,5	102,5	88	117,5
CR 24 DF	146	129	129	114.5	144

# THE DEGREE OF PROTECTION

The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleansing and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC 60529, DIN EN 60529, standards that categorize enclosures according to foreign body and water protection. The following table shows the **IP (Ingress Protection) Ratings Guide**.

FIRST Index figure	Degree of protection <b>SOLIDS</b>		SECOND Index figure	Degree of protection WATER	
0		No protection	0		No protection
1	mm 50	Protected against access to hazardous parts with the back of a hand and protected against solid foreign objects of Ø 50 mm and greater	1		Protected against vertically falling water drops
2	mm 12	Protected against access to hazardous parts with a finger - protected against solid foreign objects of Ø 12,5 mm and greater	2		Protected against vertically falling water drops when enclosure tilted up to 15° (on either side of the vertical)
3		Protected against access to hazardous parts with a tool - protected againstsolid foreign objects of Ø 2,5 mm and greater	3		Protected against spraying water (at an angle up to 60° on either side of the vertical)
4		Protected against access to hazardous parts with a wire - protected against solid foreign objects of Ø 1,0 mm and greater	4		Protected against splashing water from any direction
5		Protected against access to hazardous parts with a wire dust-protected (no harmful dust deposit)	-5		Protected against water jets from any direction
6		Protected against access to hazardous parts with a wire dust-tight (total protection against dust)	6		Protected against powerful water jets from any direction (similar to sea waves)
RA	TING EXAMPLE		7	© 30'	Protected against the effects of temporary immersion in water at a maximum depth of 1 metre for 30 min
	IP	65	8		Protected against the effects of continuous immersion in water at depth and/or duration upon agreement, more severe than for numeral 7
Description acc	cording to IEC 60529		9		Protected against high pressure and temperature water jets from any direction

ENCLOSURES

IME

# CHANGEOVER FROM PG THREADS TO METRIC

After 31<sup>st</sup> December 1999, the German safety standard DIN VDE 0619 (1987-09) and the standards it refers to - DIN 46319 for dimensions with metric threads and DIN 46320 (T1-T4), DIN 46255 and DIN 46259 for dimensions with Pg threads (Pg = Panzerrohr-Gewinde: literally "threads for armoured pipes") - were withdrawn and European standard EN 50262 "Metric cable glands for electrical installations" has been in force since 1<sup>st</sup> January 2000.

This standard defines the new sizes with metric threads for cable glands according to EN 60423 and establishes the safety prescriptions.

Conversely, it does not specify the dimensions, such as the size of the tightening wrench, the diagonal dimension, or the dimensions of the tightness seals, as was the case in the withdrawn DIN for Pg cable glands.

The standard came definitively into force on 1st April 2001, when the contrasting national standards were withdrawn.

It is valid in all member countries of CENELEC (European Electrical Standardisation Committee) and its publication has led to a broadening of the supply of enclosures for multi-pole connectors for industrial use, to include new enclosure versions with cable entry suitable for metric cable glands.

NOTE – In 2016 the new EN 62444:2013 standard "Cable glands for electrical installations" replaced the former to cover only cable gland with metric thread whose range is now M6 through M110 (previously up to M75).

Cable gland producers have introduced the new metric series to add to the Pg size series, to gradually replace the latter type. The transitional period indicated in the new standard should have ended on 1<sup>st</sup> March 2001, after which date the use of cable entry devices with Pg thread and, as a result, enclosures with Pg thread, should have ended in new installations. Nevertheless, both the cable entry devices and the relevant enclosures with Pg thread, may continue to be used as spare parts. For the mandatory **CE** marking of these items, observance of the safety conditions specified by the Low Voltage Directive is sufficient, however adherence to the safety requirements of EN 62444 provides presumption of conformity.

#### To distinguish hoods and surface-mounting housings with metric entries from the relevant Pg versions (identified with a C pre-code), the ILME metric types are identified with an M pre-code. The transposition table below indicates the correspondence rule adopted in most cases by ILME for creating the new metric versions.

Pg	Metric
Pg 11	M20
Pg 13.5	M20
Pg 16	M20
Pg 21	M25
Pg 29	M32
Pg 36	M40
Pg 42	M50

#### $Pg \rightarrow metric transposition table$

#### Cable diameter for use with ILME cable glands

$\varnothing$ in mm		Metric thread						
Series	20	20 25 32 40 50						
AS MP	6 - 12,5	10 - 18	14 - 24	15 - 24	23 - 30			
AS ME	8 - 12,5	13,5 - 18	17 - 24	_	_			
AG MT	6 - 8 -10	11 - 14 - 17	19 - 21 -24	26 - 29 - 32	35 - 38 - 41			
AG MI	5 - 12,5	9 - 18	14 - 25	18 - 32	24 - 38,5			
AG MR	6 - 8 -10	11 - 14 - 17	19 - 21 - 24	_	_			

For more information, please refer to the technical catalogue on www.ilme.com